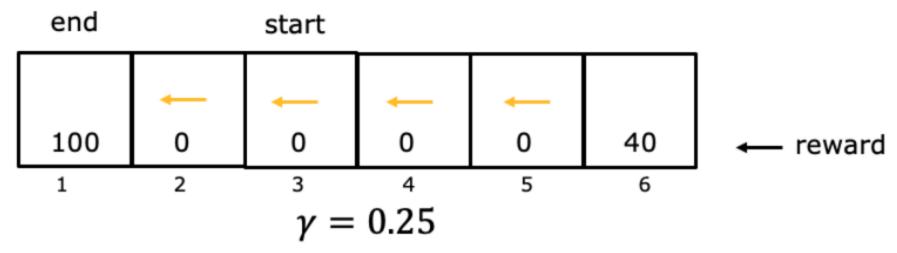
1/1 point

4.	Given the rewards and actions below, compute the return from state 3 with a discount factor of $\gamma=0.25.$	1/1 point
	✓ Correct Awesome!	
	-0.25 100 - 0.25*2 100 + 0.25*3 1000 -100 - 0.25*100 + 0.25*2*1000 -0.75*100 - 0.75*2*100 + 0.75*3*1000	
	 -100 - 0.75*100 + 0.75^2*1000 -0.25*100 - 0.25^2*100 + 0.25^3*1000 	
3.	You are using reinforcement learning to fly a helicopter. Using a discount factor of 0.75, your helicopter starts in some state and receives rewards -100 on the first step, -100 on the second step, and 1000 on the third and final step (where it has reached a terminal state). What is the return?	1/1 point
	\bigcirc R(1) > R(2) > R(3), where R(1), R(2) and R(3) are positive.	
	R(1) > R(2) > R(3), where R(1), R(2) and R(3) are negative.	
	\bigcirc R(1) < R(2) < R(3), where R(1) and R(2) are negative and R(3) is positive.	
	is permanently damaged). To reflect this, choose a reward function so that:	
2.	You are controlling a Mars rover. You will be very very happy if it gets to state 1 (significant scientific discovery), slightly happy if it gets to state 2 (small scientific discovery), and unhappy if it gets to state 3 (rover	1/1 point
	O reward	
	state	
	O return	
	O action	
1.	You are using reinforcement learning to control a four legged robot. The position of the robot would be its	



6.25 O 25 0.39

> **⊘** Correct If starting from state 3, the rewards are in states 3, 2, and 1. The return is $0 + (0.25) \times 0 + (0.25)^2 \times 100 = 6.25.$